

WPI / Thomson

AN - 2002-069220 [10]  
AP - JP20000024606 20000202; [Previous Publ JP2001214367 A 00000000]  
CN - R01521-K R01521-M RA2VTE-K RA2VTE-M R03643-K R03643-M  
CPY - SHIN-N; YUKO-N  
DC - D22 E32 F06  
DCR - [1] 1328 CL; 157007 CL  
DR - 1521-U  
DW - 200210; 200861  
IN - TERASAKI M  
LNKA- 2002-020801  
M3 - [01] A540 A940 C108 C550 C730 C801 C802 C803 C804 C805 C807 M411 M782  
M904 M905 M910 Q261 Q322 R042; R01521-K R01521-M RA2VTE-K RA2VTE-M  
- [02] A540 A940 C017 C100 C101 C108 C550 C730 C801 C803 C804 C805 C807  
M411 M782 M904 M905 Q261 Q322 R042; R03643-K R03643-M  
MC - D09-A E31-C E35-L F01-D F03-C02B  
PA - (SHIN-N) SHINTO FINE KK  
- (YUKO-N) YUKO YAKUHIN KOGYO KK  
PN - JP2001214367 A 20010807 DW200210  
JP4149111B2 B2 20080910 DW200861  
PR - JP20000024606 20000202  
XIC - A61K-033/24; D06M-011/00; D06M-011/46  
AB - NOVELTY :  
An anti-allergen fiber comprises a compound which inactivates allergens. Also claimed is a fiber product comprising the anti-allergen fiber.  
- USE :  
For making fiber products, such as carpet, tatami mat, bedding, mask, curtain and stuffed toys (claimed).  
- ADVANTAGE :  
The fiber effectively inactivates allergens.  
- INORGANIC CHEMISTRY :  
Preferred Compound: The compound which inactivates the allergen is zirconium salt.  
- EXAMPLE :  
A cloth or a non-woven fabric of cotton was immersed in an aqueous solution (specific gravity 1.65 at 25[deg]C) containing 35 weight percent (wt.%) of zirconium oxide and 46 wt.% of basic zirconyl chloride. The immersed fabric was air-dried and sewed into an anti-allergen sheet used as bedding cover. A standard dust containing 20-25 g/m<2> of mite allergen was dispersed on the non-woven fabric (6X6 cm) processed with 20 wt.% zirconium solution and air dried. A solution formed by dissolving 10 wt.% of benzyl alcohol and 30 wt.% of ethanol in 1-2 g of distilled water was sprayed on the dried fabric. The fabric was placed in a vinyl bag and mite allergen was extracted by adding a mixture containing 10 ml of phosphoric acid buffer and skimmed milk. The extract was centrifuged and the supernatant was extracted. The amount of allergens present in the extract was measured, by using enzyme immuno-assay (ELISA method). The results showed that the fabric was found to have 94.04% of inactivation effect.  
ICAI- A61K33/24; D06M11/00; D06M11/46  
ICCI- A61K33/24; D06M11/00

INW - TERASAKI M  
IW - ANTI ALLERGEN PRODUCT CARPET TATAMI MAT BEDDING MASK CURTAIN STUFF TOY  
COMPRISE COMPOUND INACTIVATE  
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COMPRISE COMPOUND INACTIVATE  
NC - 1  
NPN - 2  
OPD - 2000-02-02  
PAW - (SHIN-N) SHINTO FINE KK  
- (YUKO-N) YUKO YAKUJIN KOGYO KK  
PD - 2001-08-07  
TI - Anti-allergen fiber used in fiber products, such as carpet, tatami  
mat, bedding, mask, curtain and stuffed toys, comprises compound which